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# ANATOMY

OF

W H B B B A I N,

FROM

THE CELEBRATED DISSECTIONS

OF

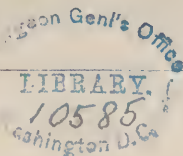
JOHN LIZARS, M. D., ETC., OF LONDON,

COMPRISING

FIFTEEN ENGRAVINGS (COLORED AFTER NATURE,)

WITH

ACCOMPANYING EXPLANATIONS.



EDITED BY

LANDON RIVES, M. D.

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CINCINNATI:

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## P R E F A C E .

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PERHAPS every medical student, both before and after he has received the degree of Doctor of Medicine, has felt the necessity for monographs, complete in themselves, to enable him to pursue to better advantage the study of special subjects.

It is tedious to wade through a whole volume to find that which might be embraced in a single chapter.

It is expensive to purchase a large book, in order to peruse a fragment of it.

The division of labor which is necessary to develop medical science, is beginning to be appreciated by medical men of our country, and they are now devoting themselves, especially in the large cities, to particular departments of practical Medicine and Surgery.

These are among my reasons for issuing this work of Plates on the Anatomy of the Brain.

These Plates are taken from the justly celebrated work of Lizars, and are executed, in very superior style by Messrs. Middleton & Wallace, of Cincinnati.

In the fifteen Plates will be found all the different dissections of the Brain, perfectly delineated, and the accompanying notes of explanation will enable the student to gain a thorough knowledge of its anatomy in a much shorter time than by actual dissection, while they will always serve as an easy mode of refreshing the memory in this part of anatomy.

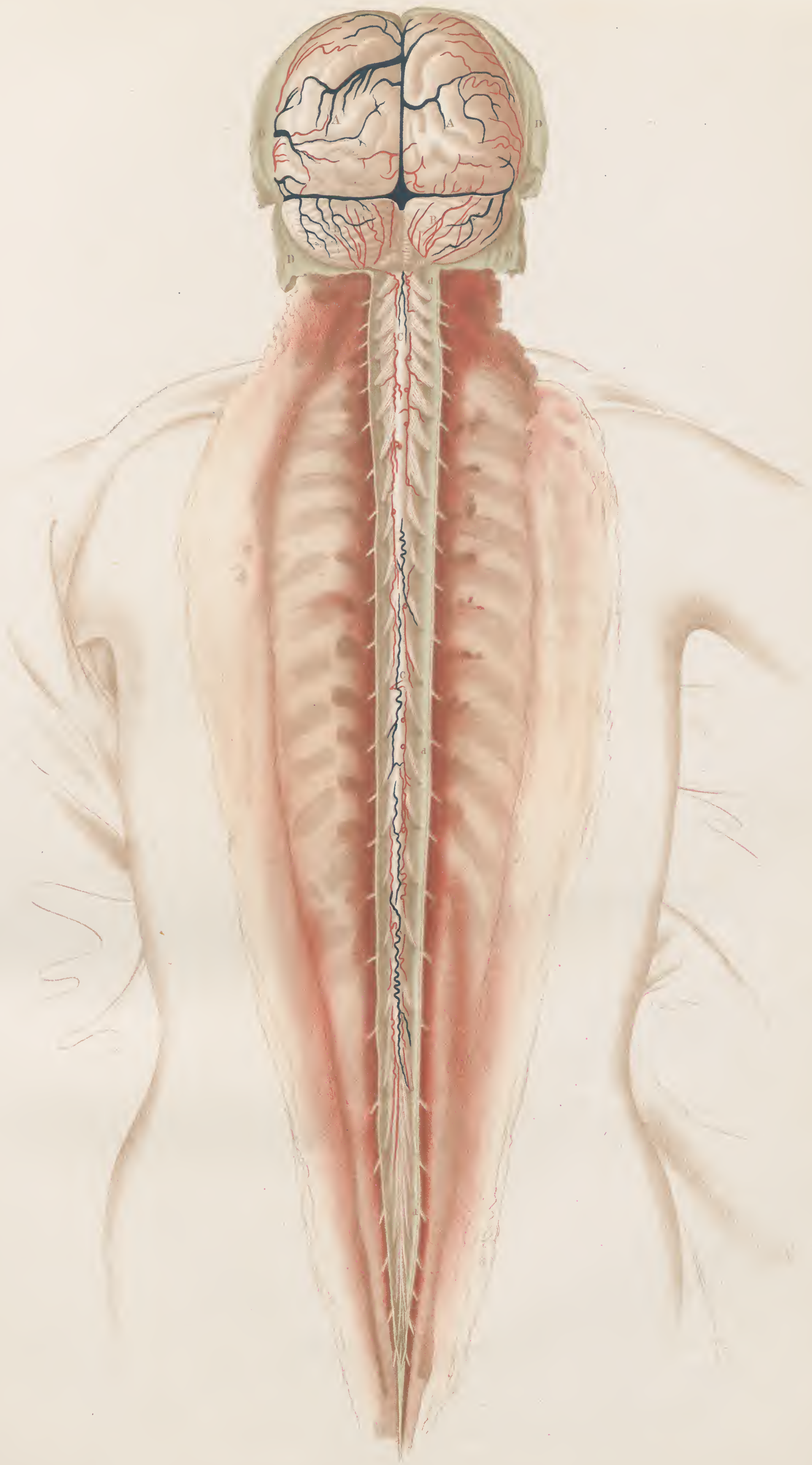
It may not be improper to add that our views of the Physiology and Pathology of the Brain are not of the most satisfactory character, and that every student of the Institutes of Medicine should endeavor to solve these enigmas. The first step toward this end is a knowledge of the special anatomy of the Brain.

LANDON RIVES, M. D., EDITOR.

## PLATE I.

A, Hemispheres of the cerebrum.  
B, Hemispheres of the cerebellum.  
C, Spinal cord.  
D, Dura mater.

d, Theca vertebralis, or neurilemma of the  
spinal cord ; by some Anatomists  
called the *Rachidian* Pia mater,  
from the Greek word *Rachiaios*.









## PLATE II.

A, Left hemisphere of the cerebrum.  
B, Left hemisphere of the cerebellum.  
C, Spinal cord.  
R, Vertebral artery.  
X, Cervical vertebræ.  
Y, Margin of the cranium.  
a, Anterior lobe of the cerebrum.  
d, Covering of the cord.  
α, Middle lobe of the cerebrum.  
x, Superior longitudinal sinus.  
z, Lateral sinus.

α, Posterior lobe of cerebrum.  
y, Middle artery of cerebrum.  
9, Lower cervical nerves, which form the  
axillary plexus.  
11, Accessory nerve to the par vagum.  
19, Internal carotid artery.  
21, First pair of cervical nerves.  
22, Second pair of cervical nerves.  
23, Third pair of cervical nerves.  
24, Fourth pair of cervical nerves.

### PLATE III.

- |                                      |   |
|--------------------------------------|---|
| A, Right hemisphere of the cerebrum. | y, Temporal vein.   |
| D, Dura mater.                       | 1, Veins on the surface of the right hemisphere running into the superior longitudinal sinus. |
| Y, Margin of the cranium.            | 5, Middle meningeal artery.   |
| Z, The nose.                         |   |
| g, Temporal artery.                  |   |
| x, Superior longitudinal sinus.      |   |

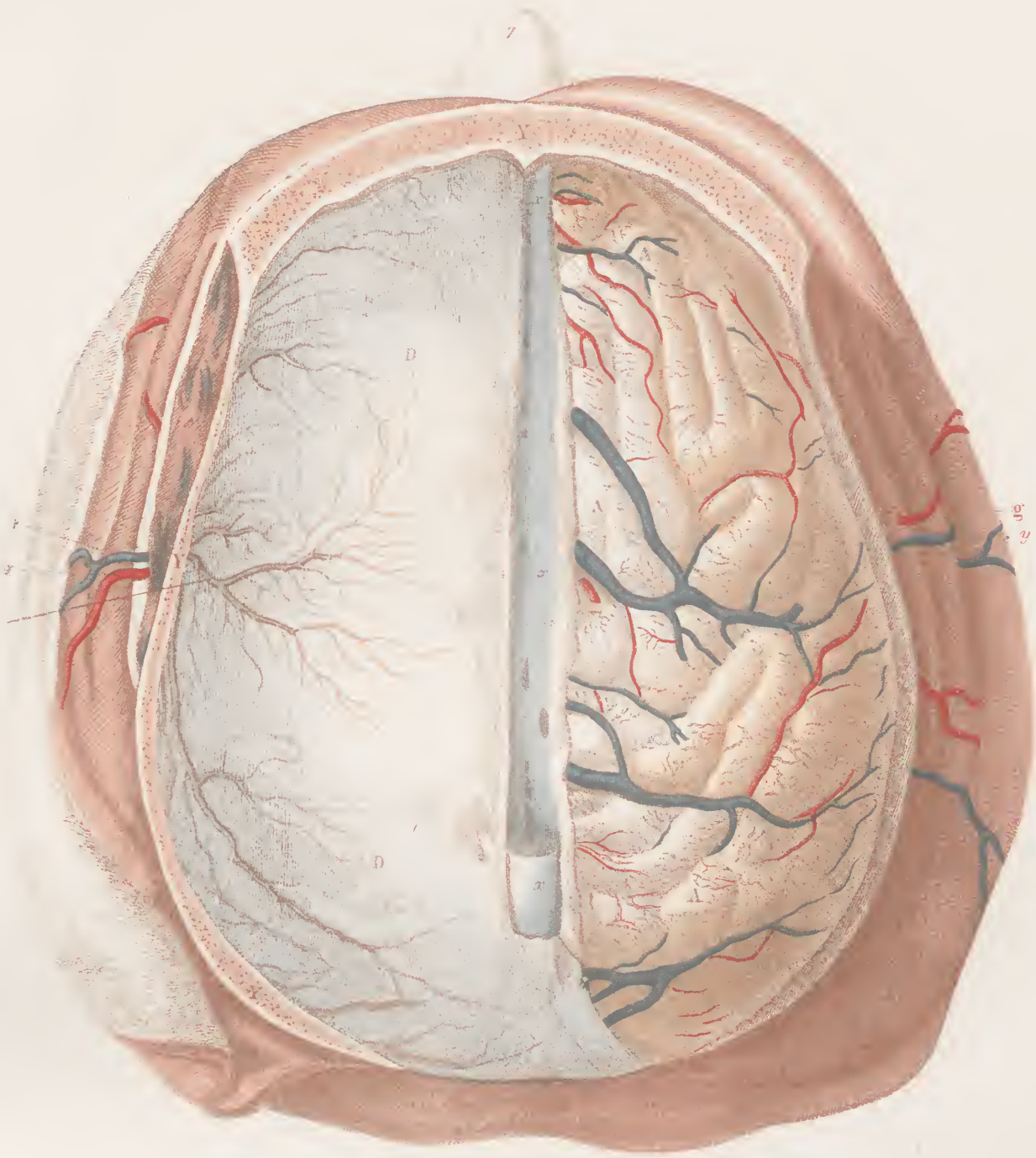
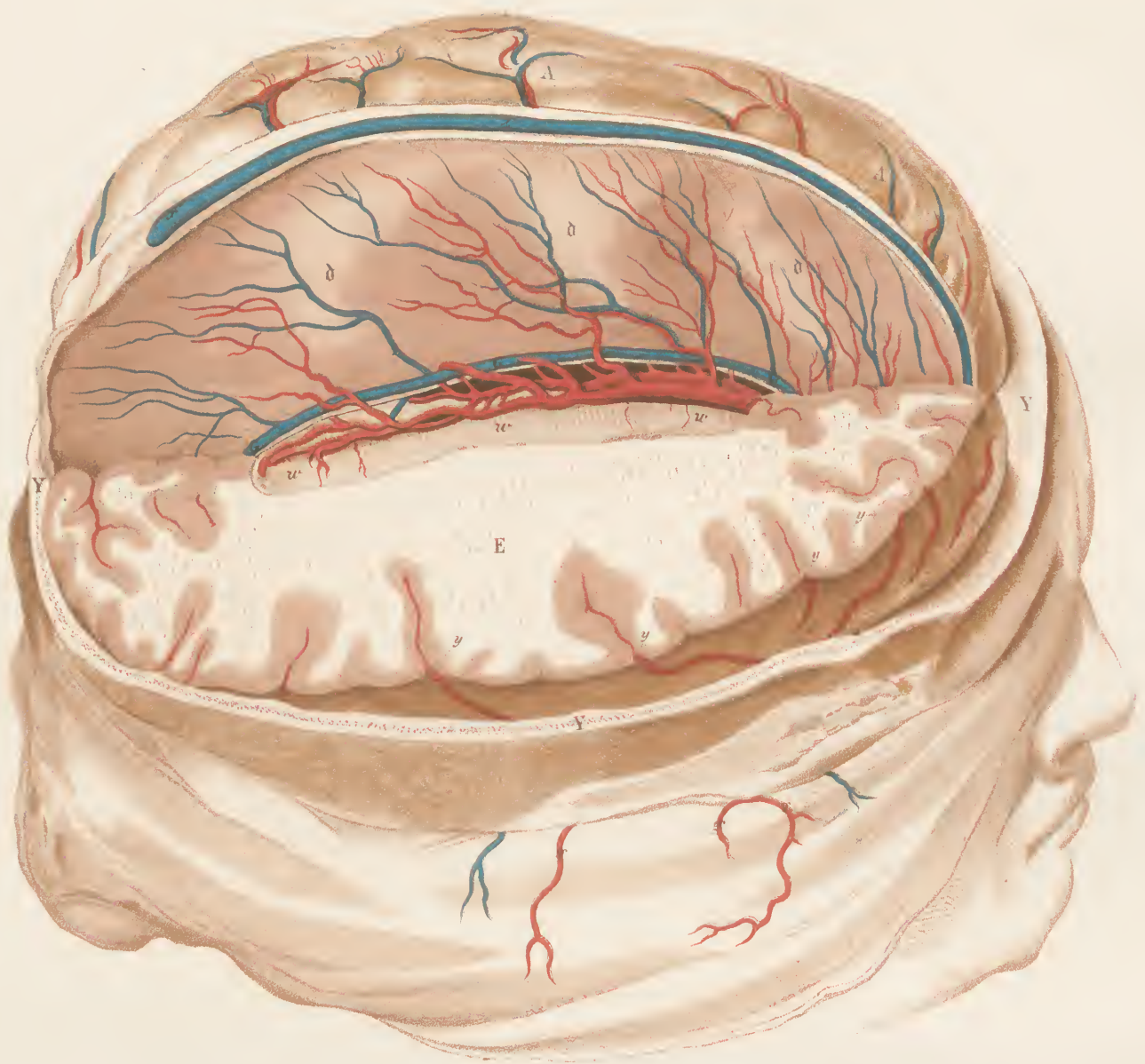






PLATE .IV.



## PLATE IV.

A, Left hemisphere of the cerebrum.	w, Corpus callosum.
E, Medullary matter of the right hemisphere.	x, Superior longitudinal sinus.
G, Inferior longitudinal sinus.	y, Middle artery of the cerebrum.
Y, Margin of the cranium.	z, Falx cerebri.
g, Temporal artery.	2, Veins forming a communication with the superior and inferior sinuses.
v, Artery of corpus callosum.	

# PLATE V.

- |                                       |   |
|---------------------------------------|---|
| B, Hemispheres of cerebellum.         | e, Corpora bigemina inferiora, or the   |
| C, Spinal cord.                       | testes.                                 |
| E, Centrum ovale of Vieussens.        | o, Anterior arteries of the cerebellum. |
| V, Valve of Vieussens.                | r, Valve of Tarn, or Reil.              |
| e, Corpora bigemina superiora, or the | 4, Fourth Ventricle.                    |

PLATE V.







PLATE VI.



## PLATE VI.

A, Anterior cornu of lateral ventricle.	P, Posterior cornu of lateral ventricle.
D, Dura mater.	<i>i</i> , Choroid plexus.
E, Medullary matter of hemisphere.	k, Hippocampus minor.
F, Thalamus nervi optici.	r, Posterior artery of the cerebrum.
G, Corpus striatum.	t, Tænia semicircularis.
I, Inferior cornu of lateral ventricle.	v, Artery of corpus callosum.
K, Fornix.	y, Middle artery of the cerebrum.
L, Septum lucidum.	k, Hippocampus major.
M, Foramen of Monro.	

## PLATE VII.

**Fig. 1.**

F, Thalamus nervi optici.  
G, Corpus striatum.  
K, Fornix.  
L, Septum lucidum.

i, Choroid plexus.  
t, Tænia semicircularis.  
w, Corpus callosum.  
5, Fifth ventricle.

**Fig. 2.**

F, Thalamus nervi optici.  
G, Corpus striatum.  
K, Fornix.  
a, Foramen commune anterius.  
i, Vena magna Galeni.

k, Anterior crus of fornix.  
i, Choroid plexus.  
i, I, i, Velum interpositum of Haller.  
t, Tænia semicircularis.  
w, Commencement of corpus callosum.

**Fig. 3.**

F, Thalamus nervi optici.  
G, Corpus striatum.  
H, Pineal gland.  
a, Foramen commune anterius.  
e, Nates.  
f, Anterior tubercle of thalamus.  
k, Anterior crus of fornix.  
m, Commissura mollis.

c, Anterior commissure.  
e, Testes.  
f, Corpus geniculatum internum.  
h, Peduncles of pineal gland.  
p, Posterior commissure.  
t, Tænia semicircularis.  
w, Beginning of corpus callosum.  
3, Third ventricle.

**Fig. 4.**

E, Tuber annulare or Pons Varolii.  
F, Thalamus nervi optici.  
H, Pineal gland.  
I, Iter ad infundibulum.  
P, Pituitary gland.  
e, Nates.  
c, Anterior commissure.

e, Testis.  
h, Peduncles of pineal gland.  
i, Infundibulum.  
p, Posterior commissure.  
r, Posterior artery of the cerebrum.  
19, Internal carotid artery.

**Fig. 5.**

Section of the medulla oblongata.

**Fig. 6.**

F, Corpus olivare.

G, Corpus pyramidale.

**Fig. 7.**

E, Tuber annulare, or Pons Varolii.  
F, Thalamus nervi optici.  
O, Ophthalmic artery.  
R, Vertebral artery.  
q, Basilar artery.  
1, Olfactory nerve.  
2, Optic nerve.  
3, Motor oculi nerve.  
4, Pathetic nerve.  
5, Trigeminal nerve, or Trifacial nerve.  
6, Abducens nerve.  
7, Facial nerve.

8, Auditory nerve.  
9, Glosso-pharyngeal.  
9, a, Fifth cervical nerve.  
10, Nervus vagus, or pneumogastric nerve.  
11, Accessory nerve of Willis.  
12, Lingual nerve.  
19, Internal carotid artery.  
21, First cervical nerve.  
22, Second cervical nerve.  
23, Third cervical nerve.  
24, Fourth cervical nerve.

PLATE VII

Fig. 2.



Fig. 3.



Fig. 1.



Fig. 4.



Fig. 6.



Fig. 5.



Fig. 7.

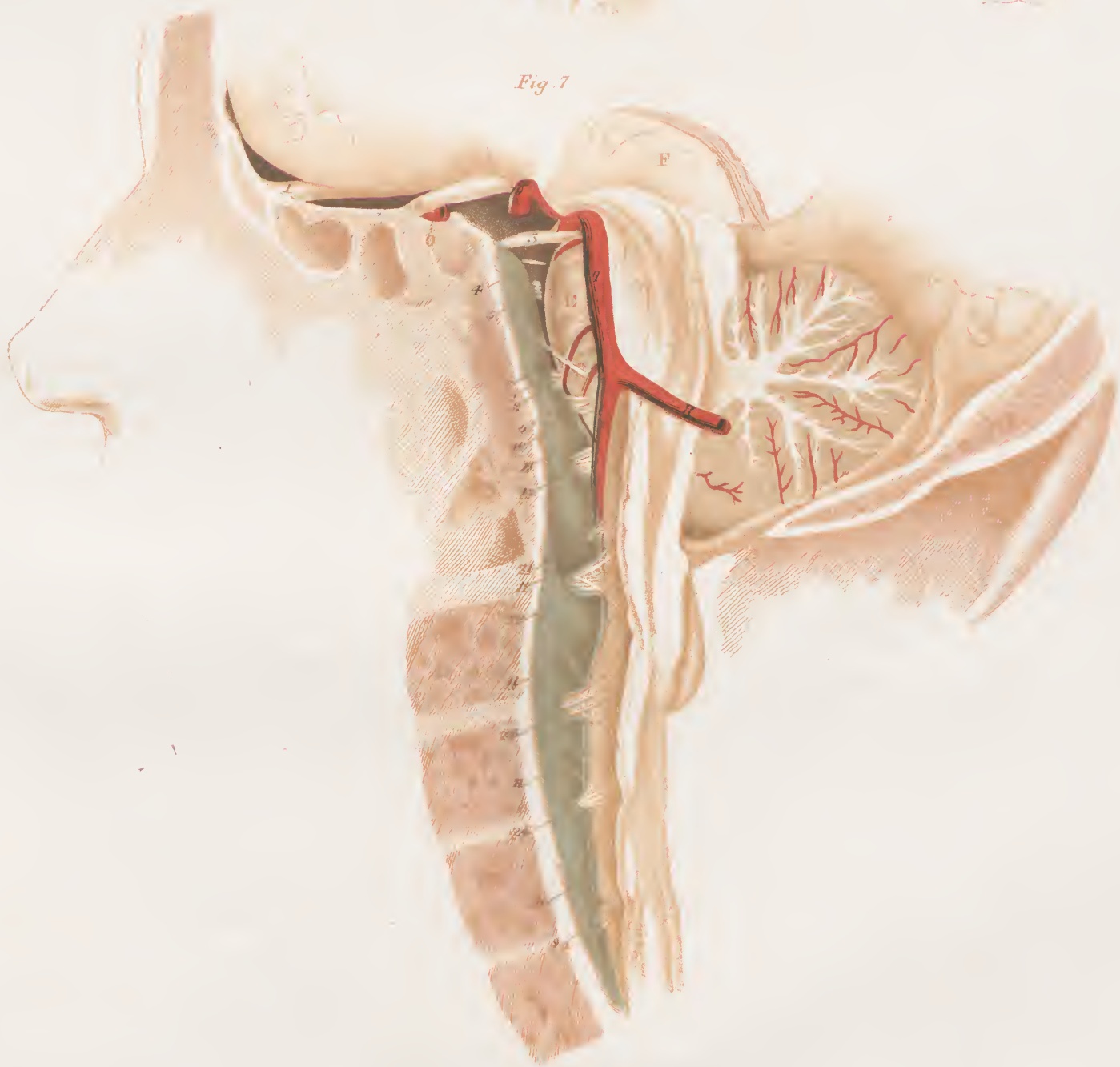






PLATE VIII.



## PLATE VIII.

A, Anterior cornu of lateral ventricle.	<i>a</i> , Foramen commune posterius.
E, Medullary matter of hemispheres of cerebrum.	d, Tentorium cerebelli.
F, Thalamus nervi optici.	<i>f</i> , Corpus geniculatum internum.
G, near w, Corpus striatum.	h, Peduncle of pineal gland.
G, near ð, Inferior longitudinal sinus.	<i>i</i> , Choroid plexus.
H, Pineal gland.	p, Posterior commissure.
a, Foramen commune arterius.	r, Posterior artery of cerebrum.
e, Corpus bigemina superius, or Natis.	t, Tænia semicircularis.
f, Anterior tubercle of thalamus.	v, Artery of corpus callosum.
I, Vena magna Galeni.	w, Corpus callosum.
k, k, Anterior pillars of fornix.	ð, Falx cerebri.
	iv, Fourth venous sinus.

## PLATE IX.

- |  |   |
|--|---|
| <p>B, Cerebellum.</p> <p>E, Medullary matter of left hemisphere of cerebrum.</p> <p>F, Thalamus nervi optici.</p> <p>G, Corpus striatum.</p> <p>I, Inferior cornu of lateral ventricle.</p> <p>H, Pineal gland.</p> <p>Y, Section of the cranium.</p> <p>a, Foramen commune anterius.</p> <p>e, Natis.</p> <p>f, Anterior tubercle of thalamus.</p> <p>k, k, Anterior pillars of fornix.</p> <p>a, Foramen commune posterius.</p> <p>e, Anterior commissure.</p> | <p>e, Testis.</p> <p>h, Peduncle of pineal gland.</p> <p>i, Choroid plexus.</p> <p>p, Posterior commissure.</p> <p>r, Posterior artery of cerebrum.</p> <p>t, Tænia semicircularis.</p> <p>v, Artery of corpus callosum.</p> <p>w, Corpus callosum.</p> <p>x, Superior longitudinal sinus.</p> <p>y, Middle artery of cerebrum.</p> <p>z, Lateral sinus.</p> <p>k, Hippocampus major.</p> <p>4 or iv, Fourth sinus.</p> |
|--|---|

PLATE IX.







PLATE X.



## PLATE X.

B, Hemisphere or lobe of the cerebellum.	u, Anterior communicant artery.
E, Tuber annulare or pons varolii.	v, Artery of corpus callosum.
F, Corpus olivare.	y, Middle artery of cerebrum.
G, Corpus pyramidale.	1, Olfactory nerve.
R, Vertebral artery.	2, Optic nerve.
Y, Section of cranium.	3, Motor oculi nerve.
a, Anterior lobe of cerebrum.	4, Pathetic nerve.
α, Middle lobe of cerebrum.	5, Trigeminal, or Trifacial nerve.
e, Posterior artery of cerebellum.	6, Abducens nerve.
i, Infundibulum.	7, Facial nerve.
o, Anterior artery of cerebellum.	8, Auditory nerve.
q, Basilar artery.	9, Glosso-pharyngeal nerve.
r, Posterior artery of cerebrum.	10, Nervus vagus.
ss, Corpus mamillaria, or corpus albicantia.	11, Accessory nerve to nervus vagus.
t, Lateral communicant artery.	12, Lingual nerve.
	19, Internal carotid artery.

## PLATE XI.

B, Transverse spinous process of sphenoid bone.	δ, Falx cerebri.
C, Cavernous sinus.	δ̄, Falx cerebelli.
E, Dura mater extended over sella turcica to cover pituitary gland.	1, Olfactory nerve.
R, Vertebral artery.	2, Optic nerve.
Y, Section of cranium.	3, Motor oculi nerve.
Z, The nose.	4, Pathetic nerve.
b, Crista galli.	5, Trigeminal, or <i>trifacial</i> nerve.
d, Tentorium cerebelli.	5*, Middle meningeal artery.
i, Infundibulum.	6, Abducens nerve.
k, Foramen magnum.	7, Facial nerve.
o, Ophthalmic artery.	8, Auditory nerve.
p, Petrosal sinus.	19, Glosso-pharyngeal nerve.
u, Inferior depression of occipital bone.	10, Nervus vagus.
x, Superior longitudinal sinus.	11, Accessory nerve to nervus vagus.
z, Lateral sinus.	12, Lingual nerve.
	19, Internal carotid artery.
	iv, Fourth sinus.

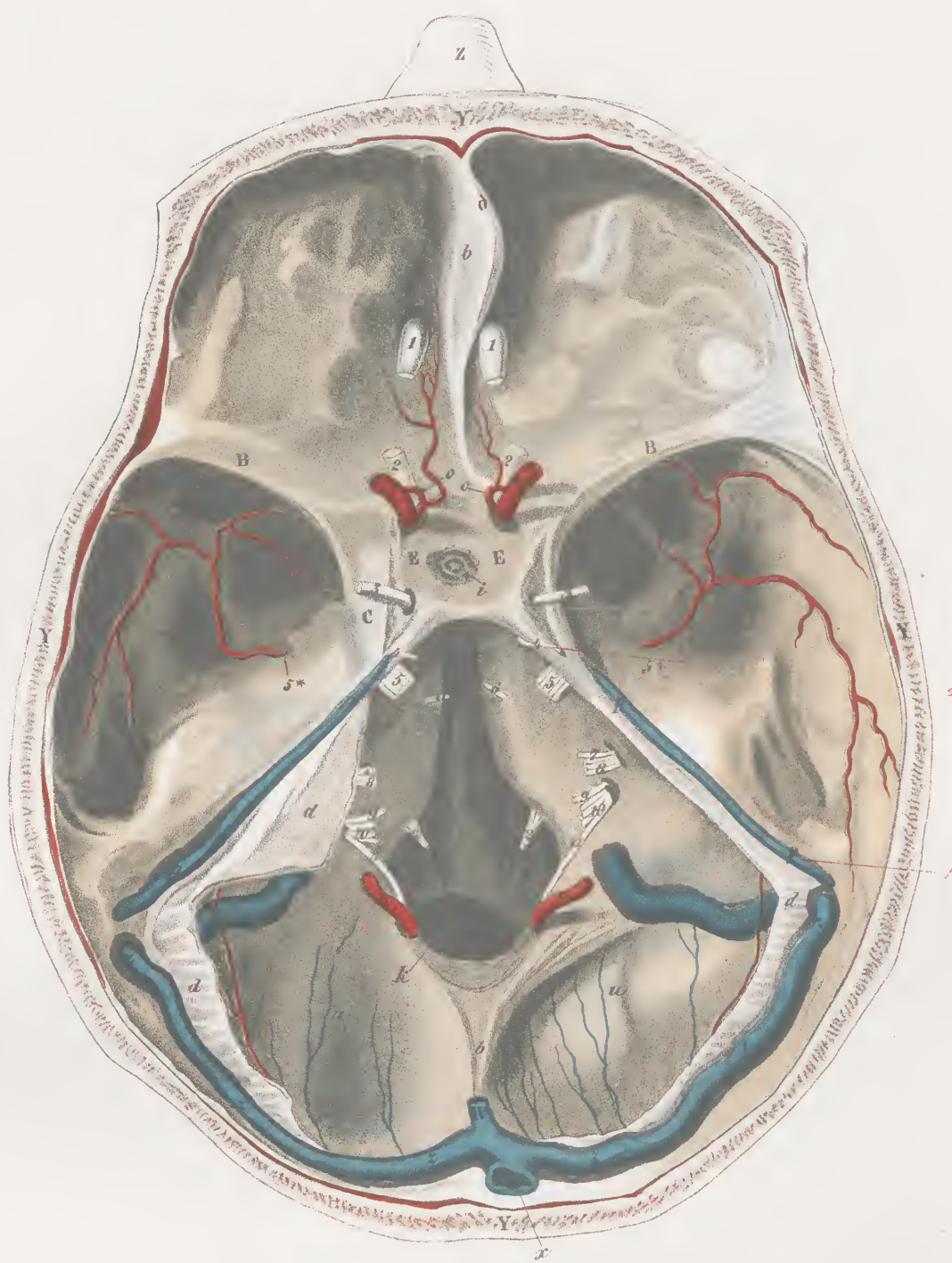






PLATE XII.

Fig. 1.

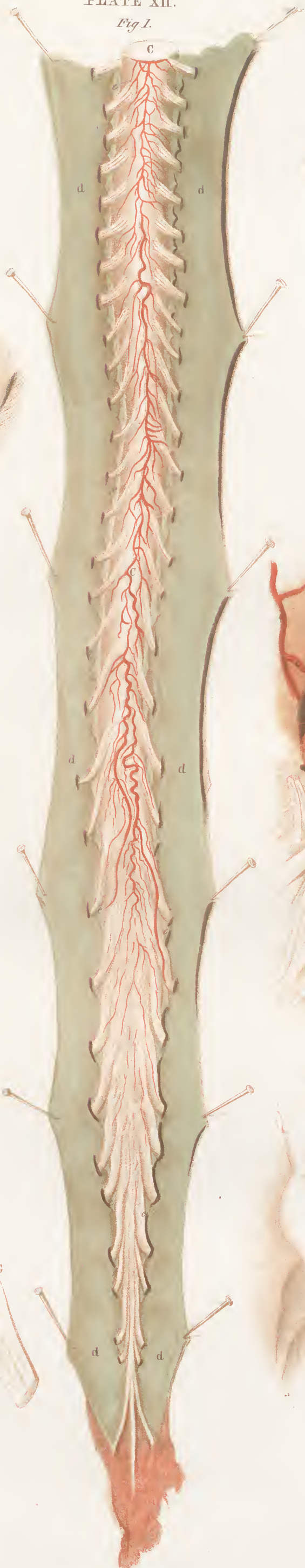


Fig. 5.

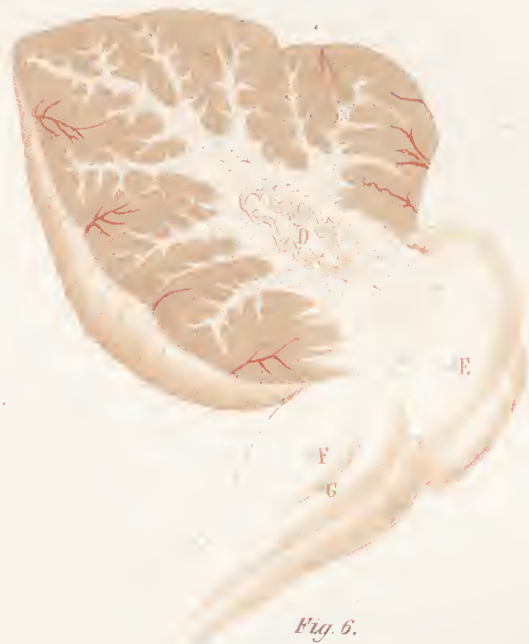


Fig. 5.



Fig. 6.

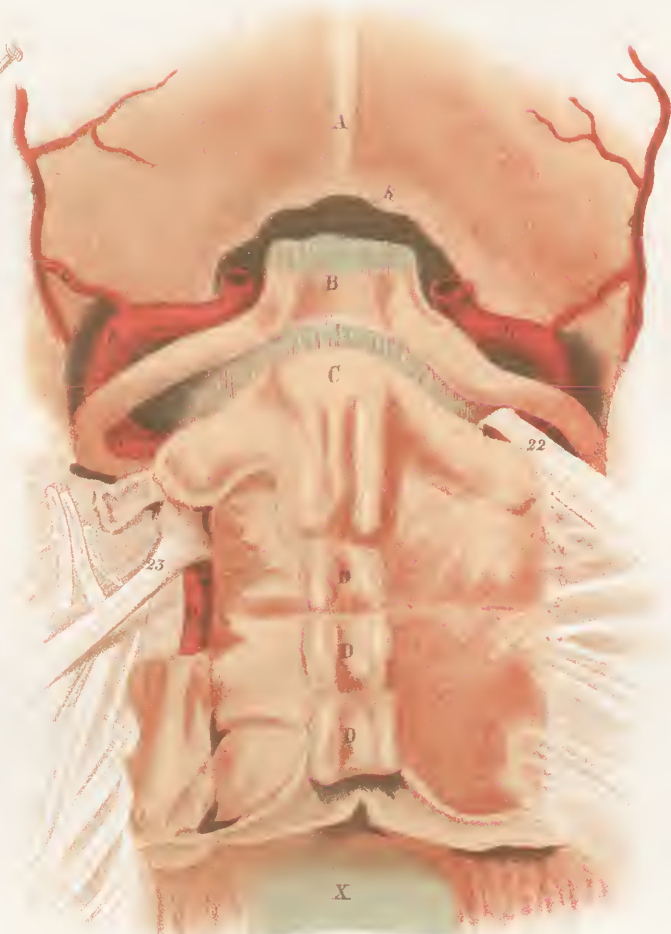
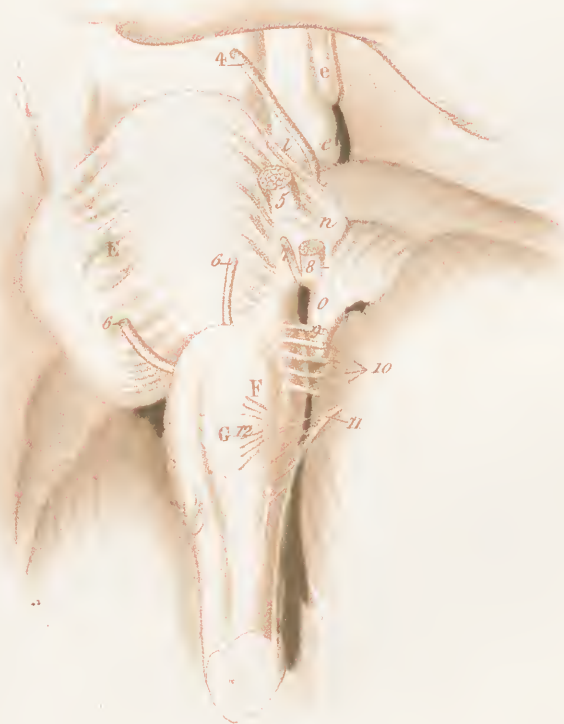


Fig. 4.



Fig. 2.



## PLATE XII.

C, Spinal cord.  
d, Theca vertebralis.

Fig. 1.

e, Ligamentum denticulatum.

E, Tuber annulare, or pons varolii.  
F, Corpus olivare.  
G, Corpus pyramidale.  
e, Natis.  
e, Testis.  
4, Pathetic nerve.  
5, Trigeminal nerve.  
6, Abducens nerve.  
7, Facial nerve.

Fig. 2.

8, Auditory nerve.  
1, Processus cerebelli ad testes.  
n, Processus cerebelli ad pons varolii.  
o, Processus cerebelli ad medullam oblongatam.  
9, Glosso-pharyngeal nerve.  
10, Nervus vagus.  
11, Accessory nerve to nervus vagus.  
12, Lingual nerve.

D, Corpus dentatum  
E, Tuber annulare.

Fig. 3.

F, Corpus olivare.  
G, Corpus pyramidale.

B, Cerebellum.  
E, Tuber annulare, or pons varolii.  
F, Thalamus nervi optici.  
G, Corpus pyramidale.  
G\*, Corpus striatum.

Fig. 4.

N, Corpus niger.  
e, Natis.  
g, Crus cerebri.  
e, Testis.  
s, Corpus mamillare.

C, Spinal cord.  
E, Tuber annulare, or pons varolii.  
F, Thalamus nervi optici.  
a, Anterior lobe of cerebrum.  
e, Natis.  
g, Crus cerebri.  
e, Testis.

Fig. 5.

i, Infundibulum.  
ss, Corpora mamillaria, or corpora albicantia.  
1, Olfactory nerve.  
2, Optic nerve.  
2\*, Optic tract.

A, Occipital bone.  
B, Atlas.  
C, Dentata.  
D, Spinous process of cervical vertebra.  
R, Vertebral artery.  
V, Body of vertebra.

Fig. 6.

d, Occipital artery.  
e, Branch of communication between vertebral and occipital artery.  
k, Foramen magnum.  
22, Second cervical nerve.  
23, Third cervical nerve.

## PLATE XIII.

- |   |   |
|---|---|
| B, Hemisphere of cerebellum.            | o, Processus cerebelli ad medullam oblon- |
| E, Tuber annulare, or pons varolii.     | gatam.                                    |
| F, Corpus olivare.                      | ss, Corpora mamillaria, or corpora albi-  |
| G, Corpus pyramidale.                   | cantia.                                   |
| a, Anterior lobe of cerebrum.           | A, Posterior lobe of cerebrum.            |
| g, Crus cerebri.                        | 1, Olfactory nerve.                       |
| a, Middle lobe of cerebrum.             | 2, Optic nerve.                           |
| i, Infundibulum.                        | 2*, Optic tract.                          |
| n, Processus cerebelli ad pons varolii. |   |









## PLATE XIV.

- |  |  |
|--|--|
| <p>B, Cerebellum.</p> <p>C, Spinal cord.</p> <p>E, Tuber annulare, or pons varolii.</p> <p>F, Thalamus nervi optici.</p> <p>G, Corpus pyramidale.</p> <p>H, Pineal gland.</p> <p>K, Fornix.</p> <p>R, Vertebral artery.</p> <p>V, Valve of Vieussens.</p> <p><i>d</i>, Theca vertebralis.</p> <p><i>e</i>, Natis.</p> <p><i>g</i>, Crus cerebri.</p> <p><i>k</i>, Anterior pillar of fornix.</p> <p><i>e</i>, Testis.</p> <p><i>n</i>, Processus cerebelli ad testes.</p> <p><i>m</i>, Commissure of cerebellum.</p> | <p><i>n</i>, Processus cerebelli ad pons varolii.</p> <p><i>o</i>, Processus cerebelli ad medullam oblongatam.</p> <p><i>p</i>, Posterior commissure.</p> <p><i>q</i>, Basilar artery.</p> <p><i>r</i>, Posterior artery of cerebrum.</p> <p><i>w</i>, Artery of corpus callosum.</p> <p><i>w</i>, Corpus callosum.</p> <p><i>x</i>, Superior longitudinal sinus.</p> <p><i>z</i>, Lateral sinus.</p> <p>3, Third ventricle.</p> <p>4, Near <i>o</i> and <i>n</i>, Fourth ventricle.</p> <p>4, or iv near <i>x</i> and <i>z</i>, Fourth sinus.</p> <p>5 Fifth ventricle.</p> <p>19, Internal carotid artery.</p> <p style="text-align: center;">Iter a tertio ad quartum ventriculū.</p> |
|--|--|

PLATE XV.

A, Hemisphere of cerebrum.

D, Dura mater.

Y, Section of cranium.

PLATE XV.















